

AMENDMENTS TO THE CLAIMS:

Please amend claims 2, 3, 7, 10, 14 and 25 and cancel without prejudice claims 4, 5, 17 and 18 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (cancelled).

2. (currently amended) A deformable-mirror apparatus as in claim ~~25~~31, wherein the ends of the flexible beams are co-joined to form a unitary structure shaped to provide said supporting surface.

3. (currently amended) A deformable-mirror apparatus as in claim ~~25~~31, wherein the ends of the flexible structure lie in the plane of the body of the holder such that the mirror is received within the body.

4. (cancelled).

5. (cancelled).

6. (cancelled).

7. (currently amended) A deformable-mirror apparatus as in claim ~~25~~31, wherein the width of the beams is larger than the separation between beams.

8. (previously presented) A deformable-mirror apparatus as in claim 7, wherein the width of the beams is greater than four times the separation between beams.

9. (cancelled).

10. (currently amended) A deformable mirror apparatus ~~as in claim 4~~ comprising:
a deformable mirror,
a mounting body having an aperture in which the deformable mirror is received, and
flexible structure extending across the aperture to the mirror, and
a deformation device for controllably deforming the mirror, the deformation device
acting on the mirror other than through the flexible structure comprising a plurality of flexible
beams arranged around the entire periphery of the aperture, the flexible structure having an end
shaped to provide a supporting surface supporting the mirror, and a flexible portion linking the
supporting surface to the body and permitting movement of an edge of the mirror relative to the
body when the mirror is deformed by the deformation device, wherein at least one beam is
generally L-shaped such that one leg of the L-shape provides the flexible portion and the other
leg of the L-shape provides the supporting surface of the end of the beam, wherein the peripheral
edge of the mirror is supported from below by one leg of the L-shaped beam and is supported from the side by the other leg of the L-shaped beam.

11. (previously presented) A deformable mirror apparatus as in claim 32, wherein the peripheral edge of the mirror is supported from below by one leg of the L-shaped beam and is supported from the side by an inwardly-facing side of the shoulder.

12. (cancelled).

13. (cancelled).

14. (currently amended) A deformable-mirror holder comprising:

a deformable-mirror holder comprising a rigid body with a central aperture for receiving a deformable mirror, the mirror having a deformation device for deforming the mirror attached thereto, and

a plurality of flexible beams around the entire periphery of said central aperture for supporting said mirror at an edge thereof, each flexible beam comprising a support for said mirror, said support permitting movement of said mirror edge when said mirror is deformed by said deformation device, said support including an end shaped to provide a supporting surface for supporting said deformable mirror and a flexible portion that links said end of the beam to said body of the holder, wherein at least one beam is generally L-shaped such that one leg of the L-shape provides the flexible portion and the other leg of the L-shape provides the supporting surface of the end of the beam, wherein the internal corner of the L-shaped beam has a shoulder that extends part of the way along both legs of the L-shape.

15. (previously presented) A deformable-mirror holder as in claim 14, wherein the ends of the flexible beams are co-joined to form a unitary structure shaped to provide said supporting surface.

16. (previously presented) A deformable-mirror holder as in claim 14, wherein the ends of the beams lie in the plane of the body of the holder such that, in use, the mirror is received within the body of the holder.

17. (cancelled).

18. (cancelled).

19. (cancelled).

20. (previously presented) A deformable-mirror holder as in claim 14, wherein the width of the beams is larger than the separation between beams.

21. (previously presented) A deformable-mirror holder as in claim 20, wherein the width of the beams is greater than four times the separation between beams.

22. (cancelled).

23. (cancelled).

24. (cancelled).

25. (currently amended) Deformable mirror apparatus comprising:

a deformable mirror,

a mounting body having an aperture in which the deformable mirror is received, and
flexible structure extending across the aperture to the mirror, and

a deformation device for controllably deforming the mirror, the deformation device acting on the mirror other than through the flexible structure comprising a plurality of flexible beams arranged around the entire periphery of the aperture, the flexible structure having an end shaped to provide a supporting surface supporting the mirror, and a flexible portion linking the supporting surface to the body and permitting movement of an edge of the mirror relative to the body when the mirror is deformed by the deformation device, wherein at least one beam is generally L-shaped such that one leg of the L-shape provides the flexible portion and the other leg of the L-shape provides the supporting surface of the end of the beam, wherein the internal corner of the L-shaped beam has a shoulder that extends part of the way along both legs of the L-shape.

26. (cancelled).

27. (cancelled).

28. (previously presented) A deformable mirror apparatus as in claim 25 wherein the flexible portions permit rotation of the edge of the mirror.

29. (previously presented) A deformable mirror apparatus as in claim 25 wherein the flexible portions permit displacement of the edge of the mirror axially of the mirror.

30. (previously presented) A deformable mirror holder as in claim 14, wherein the mounting body is a unitary structure.

31. (previously presented) A deformable mirror apparatus comprising:
a deformable mirror,
a mounting body having an aperture in which the deformable mirror is received, and
flexible structure extending across the aperture to the mirror, and
a deformation device for controllably deforming the mirror, the deformation device acting on the mirror other than through the flexible structure, the flexible structure comprising a plurality of flexible beams, each beam having an end shaped to provide a supporting surface supporting the mirror, and a flexible portion linking the supporting surface to the body and permitting movement of an edge of the mirror relative to the body when the mirror is deformed by the deformation device, each beam being generally L-shaped such that one leg of the L-shape provides the flexible portion and the other leg of the L-shape provides the supporting surface of the end of the beam the peripheral edge of the mirror being supported from below by one leg of the L-shaped beam and being supported from the side by the other leg of the L-shaped beam.

32. (previously presented) A deformable mirror apparatus comprising:

a deformable mirror,

a mounting body having an aperture in which the deformable mirror is received, and

flexible structure extending across the aperture to the mirror, and

a deformation device for controllably deforming the mirror, the deformation device acting on the mirror other than through the flexible structure, the flexible structure comprising a plurality of flexible beams, each beam having an end shaped to provide a supporting surface supporting the mirror, and a flexible portion linking the supporting surface to the body and permitting movement of an edge of the mirror relative to the body when the mirror is deformed by the deformation device, each beam being generally L-shaped such that one leg of the L-shape provides the flexible portion and the other leg of the L-shape provides the supporting surface of the end of the beam, and wherein the internal corner of the L-shaped beam has a shoulder that extends part of the way along both legs of the L-shape.